



the stars
challenge

Explore, Imagine,
and Build
Winter 2014



By learning the laws of nature, everyday observations become understandable as well as enjoyable. By exploring the mysteries surrounding many natural occurrences, it is my hope that you have become connected to your world, interacting with it rather than feeling yourself mystified by it.

From the very beginning of the course we tested the laws of nature by constructing devices that demonstrate these laws. We studied inertia by making an inertial hat...very stylish. We then took a ride on a human hockey puck...exciting! We balanced a fork and spoon on a nail... amazing. We made a "tornado" in a bottle...DON'T LET IT OUT! We learned how spectral glasses make everything look like rainbows...cool. We learned how to make loud sounds using a drinking straw...we all needed earplugs for that class. Concluding the course, we focused on electricity. We constructed a toy requiring you to maneuver a probe without a buzzer sounding...wasn't so easy was it?

Look at all we learned by just knowing a few laws of nature. My wish is that you continue your study of science! The laws of nature and a whole world of understanding await you!

Mr. Valente



The class constructed an inertial challenge; pulling a dollar bill from between the two bottles.



The students showing off their creations.



Lukas almost pulls the dollar bill from between the bottles. Liam is using the “force” to help him accomplish this challenge.



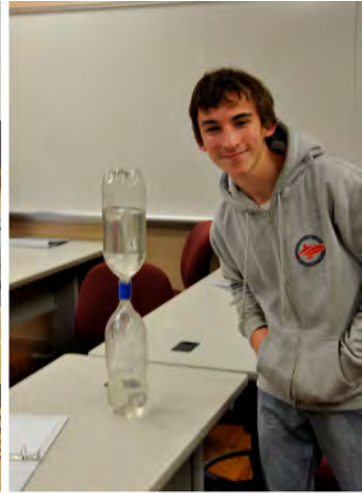
John, Madeline and Rashaad showing off their inertial hats. Very stylish! Robert gets ready to master the hoop challenge.



Madeline and William try to remove the hoop so that the pennies fall into the bottle. Kara watches in amazement.



Camryn enjoys making a "tornado" in a bottle. Kyle tries to get as many pennies as possible to fall into the bottle. Rashaad gets ready to whirl a cup of water around his head.



Yaseen shows off his “tornado” bottle. Mr. V shows Camryn and Erica how to make a “tornado”.



The class has a balloon hockey puck race. Ryan and Nick, teaching assistants for Mr. Valente, set up the construction table.



Brad and Giselle inflate their balloons for the balloon hockey puck race. William gets ready for the ride of a lifetime.



Team Hope and Madeline set their racer in motion. Elizabeth starts to construct her marble straw roller coaster.



Erica shows the trick to the balancing cup challenge.



Edison tries to master the torque challenge. Erica and Camryn master the “shoot the moon” challenge. Ryan enjoys watching the “tornado” he made.



The class watches as Mr. V demonstrates the balancing toy.



Giselle and Hope watch Mr. V demonstrate the balancing nail challenge while Yaseen shows off the one he made.



Madeline, Edison and Rashaad enjoy the pretty images made by the spectral glasses.



Robert is making his kazoo. What a noisy, but fun, night we had!





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